IN THE CLAIMS

The status of the claims is provided below.

1. (Original) A method for detecting negatively supercoiled DNA in cells, characterized by including the steps of incorporating biotinylated psoralen into cells, irradiating the cells with long-wavelength UV rays, causing the cells to react with adivin which has been labeled with a color-developing substance, a fluorescent substance, or a chemiluminescent substance, and measuring developed color, emitted fluorescence, or emitted chemiluminescence of the cells.

2. (Original) A method for detecting a cell containing negatively supercoiled DNA, characterized by including the steps of incorporating biotinylated psoralen into cells, irradiating the cells with long-wavelength UV rays, causing the cells to react with adivin which has been labeled with a color-developing substance, a fluorescent substance, or a chemiluminescent substance, and measuring developed color, emitted fluorescence, or emitted chemiluminescence of the cells.

3. (Original) The detection method according to claim 1 or 2, wherein the cells are eukaryotic cells.

4. (Currently Amended) The detection method according to claim 1 any one of claims 1 to 3, wherein incorporation of biotinylated psoralen into cells is performed in the presence of a cell membrane permeation promoting agent.

5. (New) The detection method according to any one of claim 2, wherein incorporation of biotinylated psoralen into cells is performed in the presence of a cell membrane permeation promoting agent.

6. (New) The detection method according to claim 3, wherein incorporation of biotinylated psoralen into cells is performed in the presence of a cell membrane permeation promoting agent.

SUPPORT FOR THE AMENDMENTS

Claim 4 has been amended to remove multiple dependencies. Newly-added Claims 5 and 6 are supported by original Claim 4. No new matter is believed to have been added to the present application by the amendments submitted above.